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Serial No.: 10/003,002 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.6D

Title: TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING



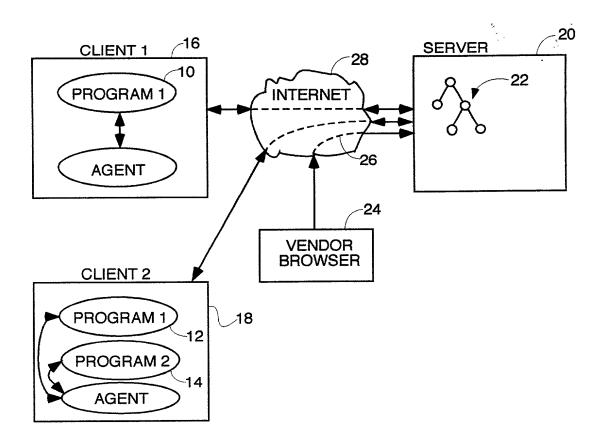


FIG. 1

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING Title:

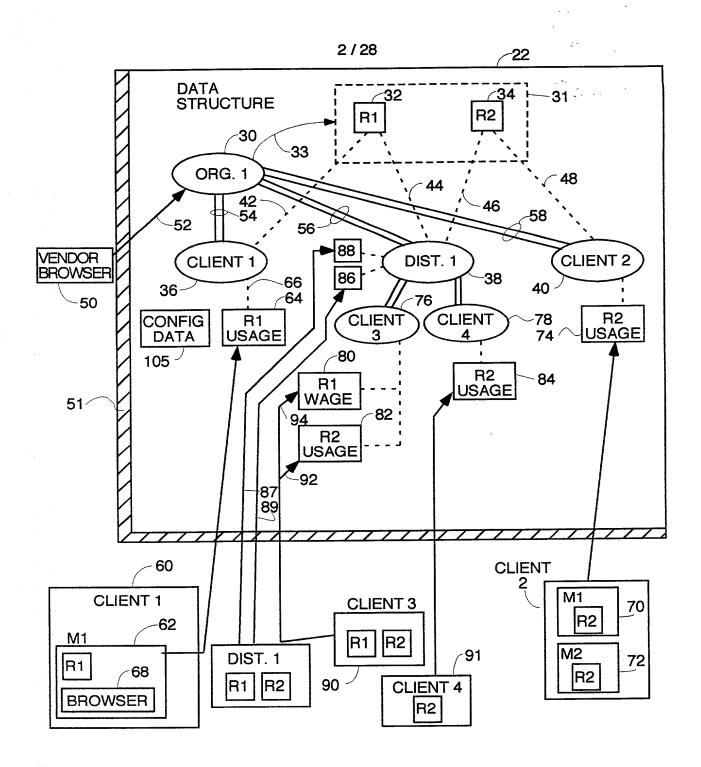


FIG. 2

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

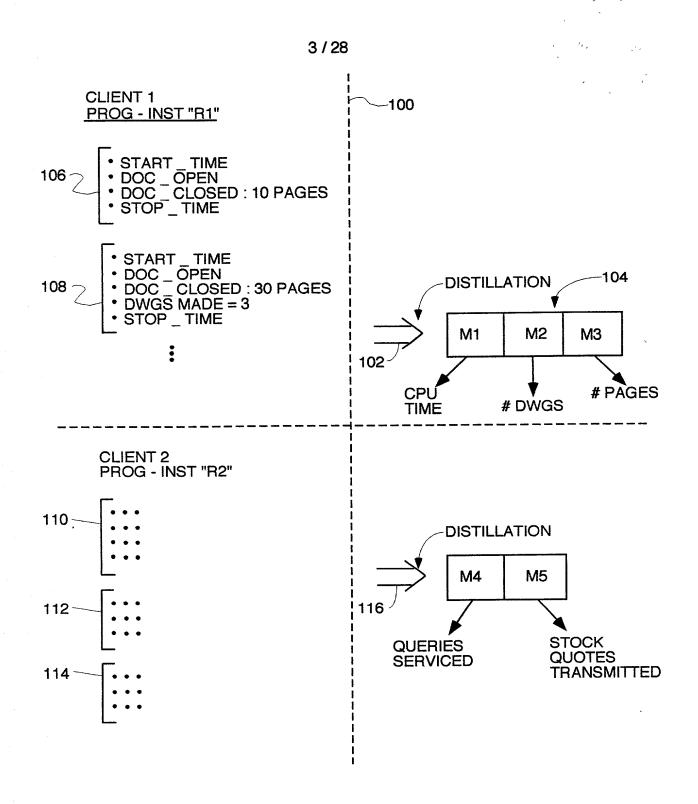
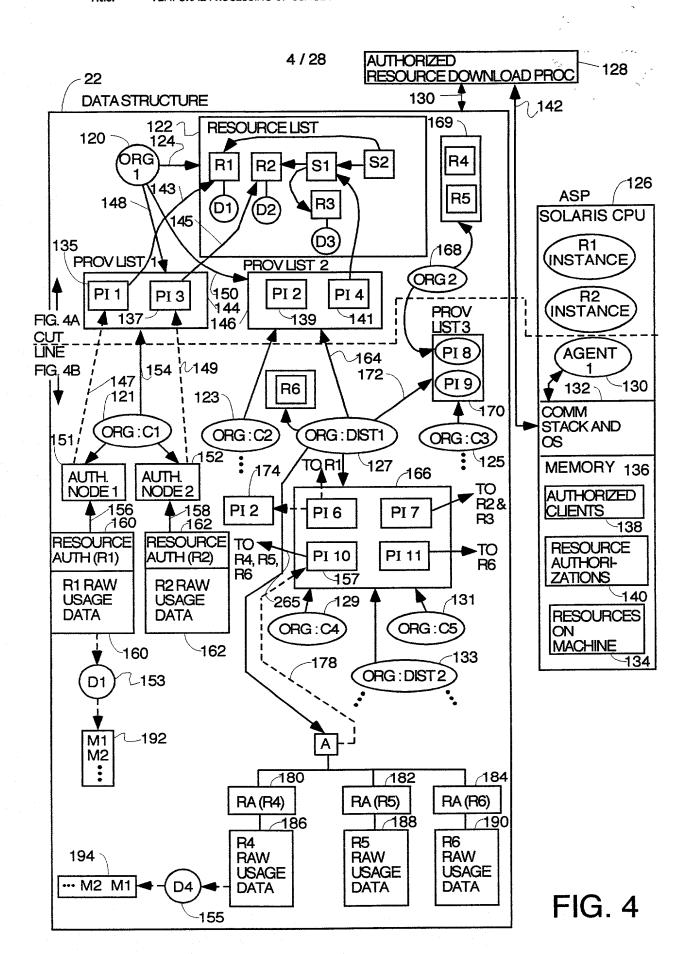
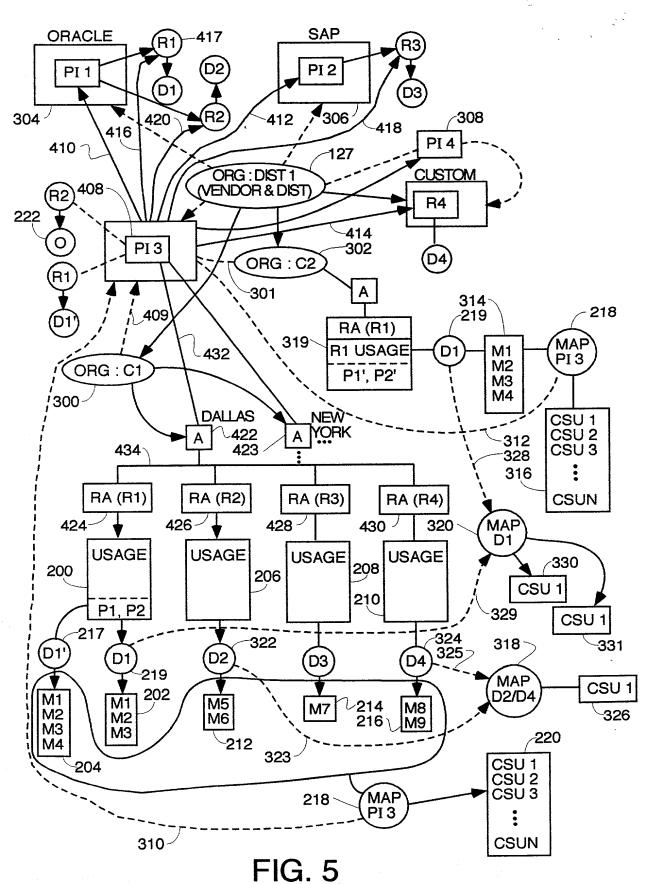


FIG. 3





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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

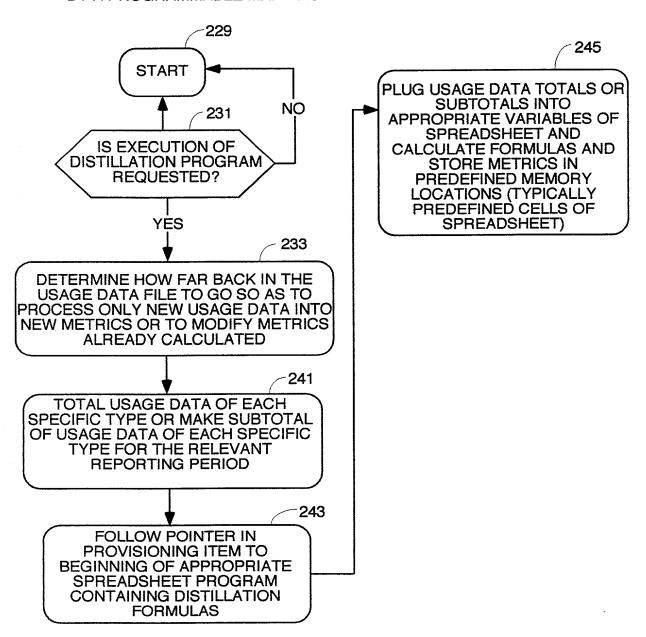


FIG. 6A

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

7/28 OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

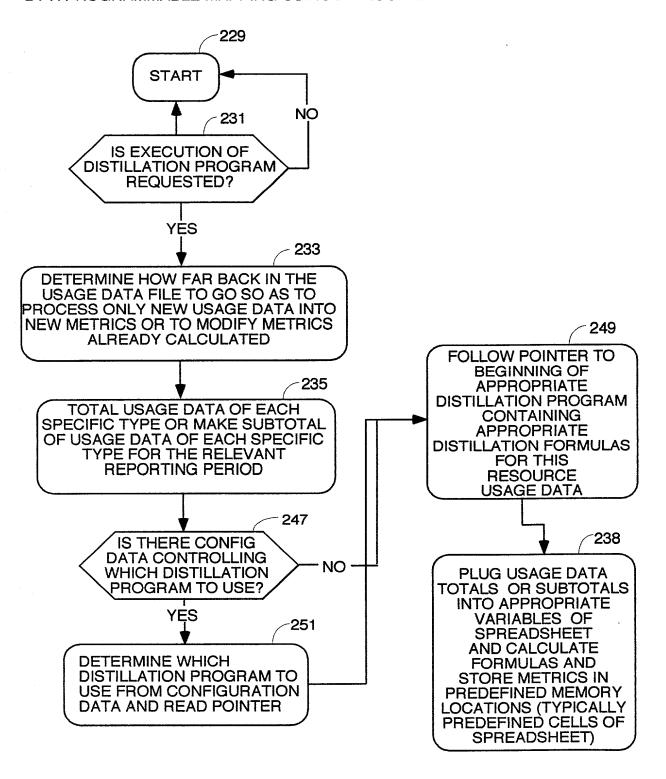


FIG. 6B

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

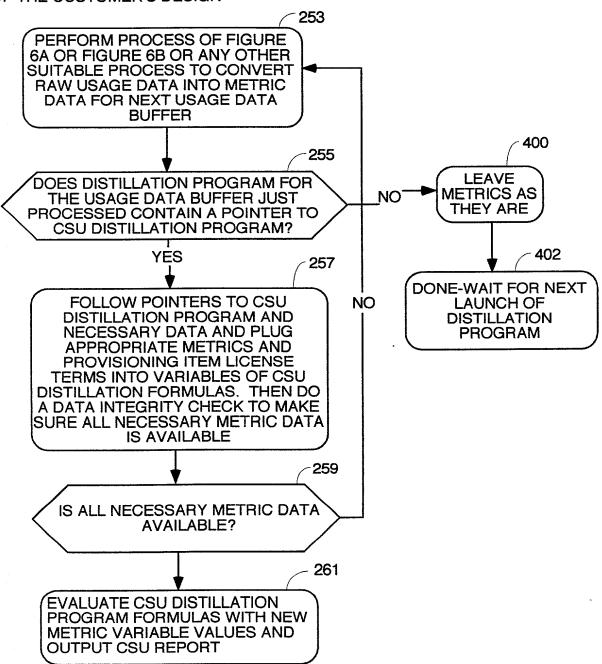


FIG. 7

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OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM

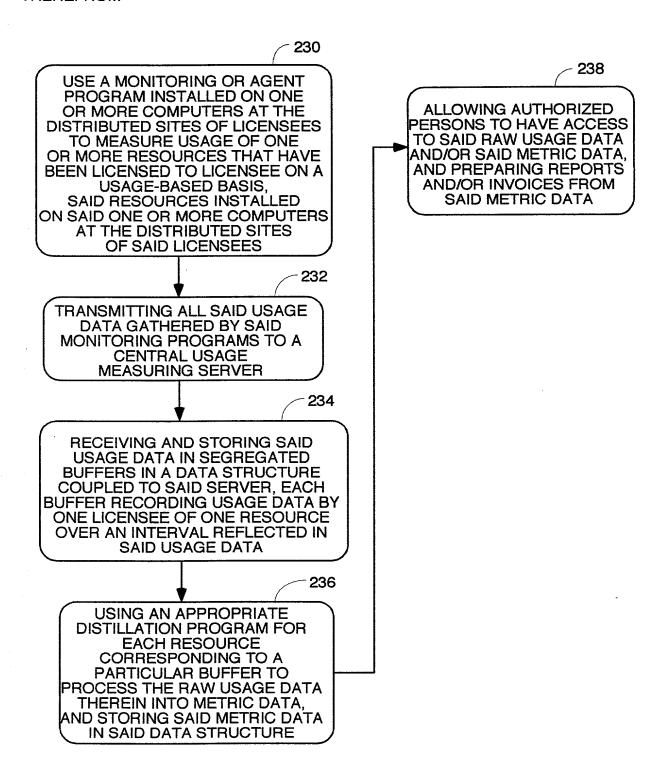


FIG. 8

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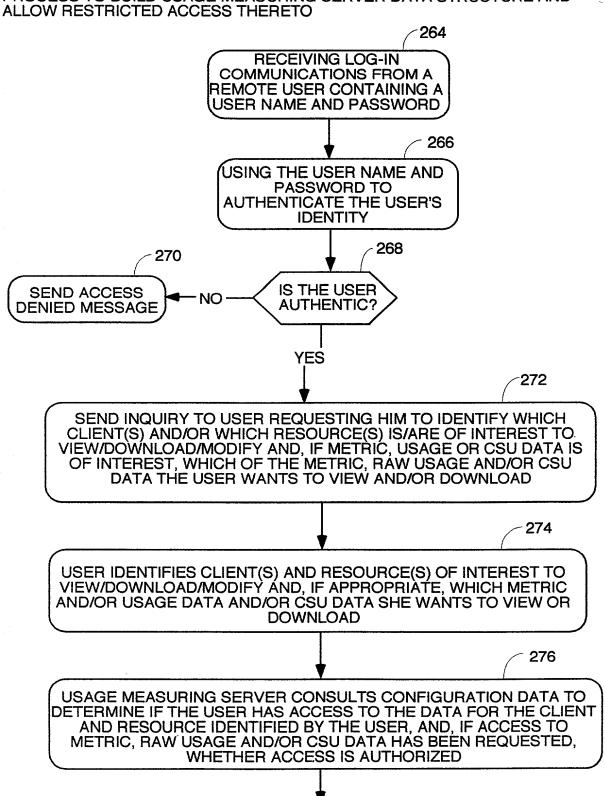
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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING Title:

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PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND



TO FIG. 9B

FIG. 9A

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING



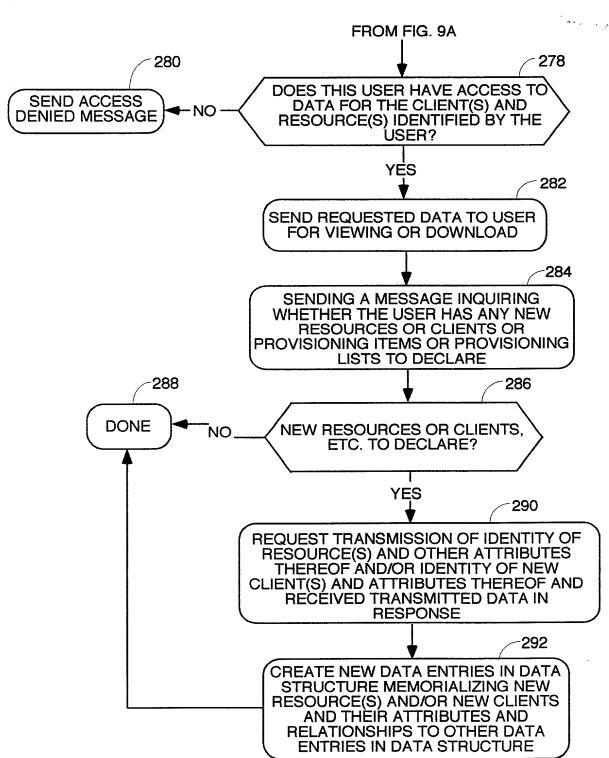


FIG. 9B

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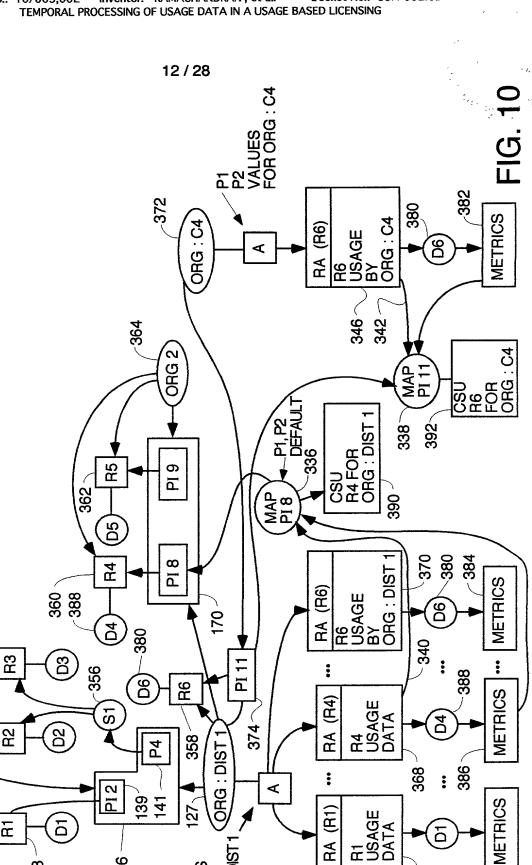
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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

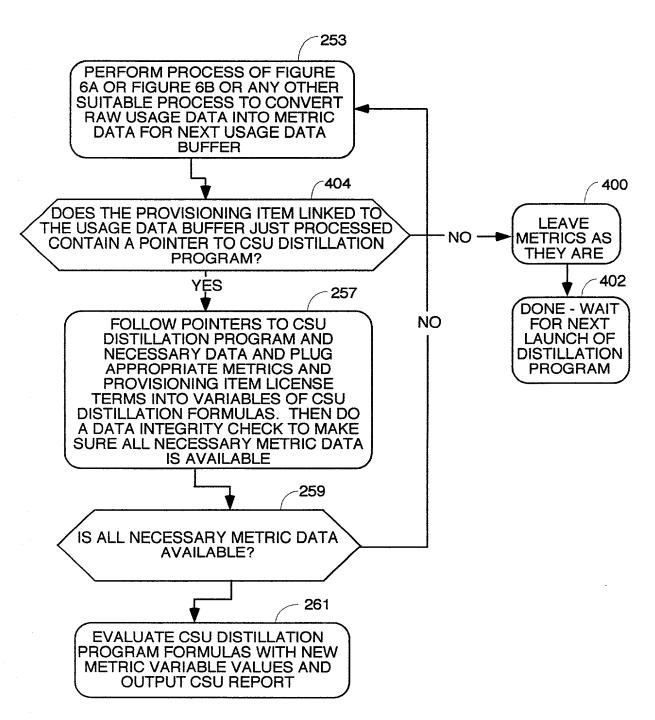


FIG. 11

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tle: TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

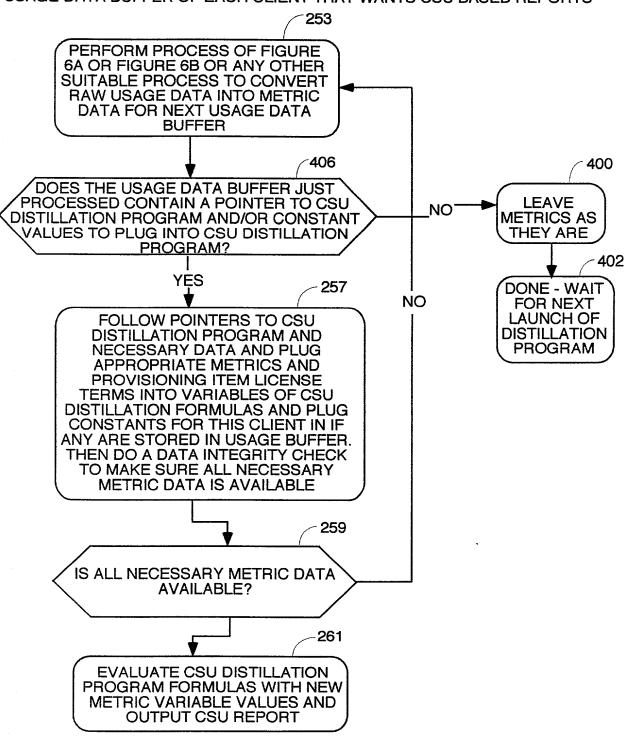


FIG. 12

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PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

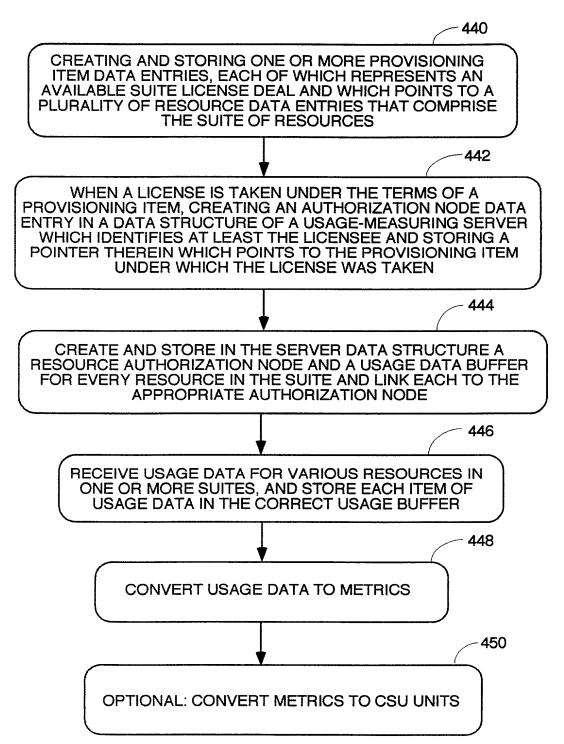


FIG. 13

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

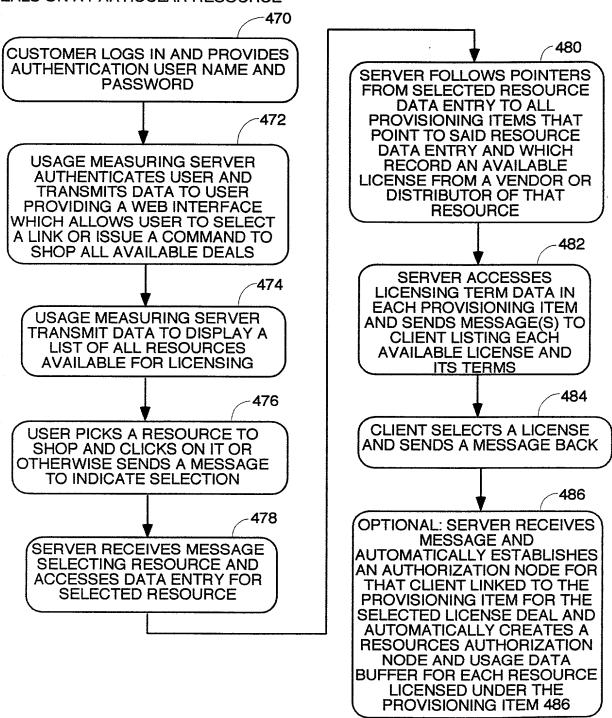


FIG. 14

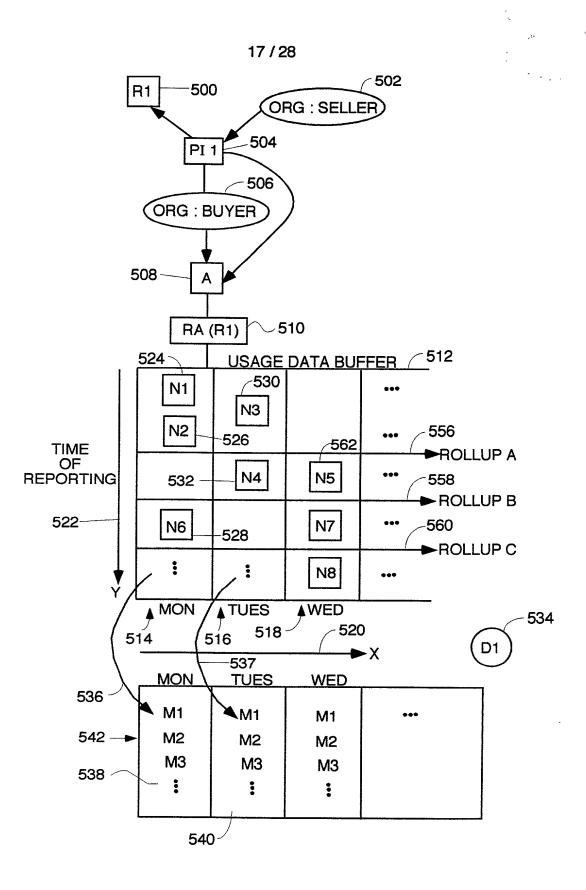


FIG. 15

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fl TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

18/28

PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS: AND GENERATE METRICS THEREFROM

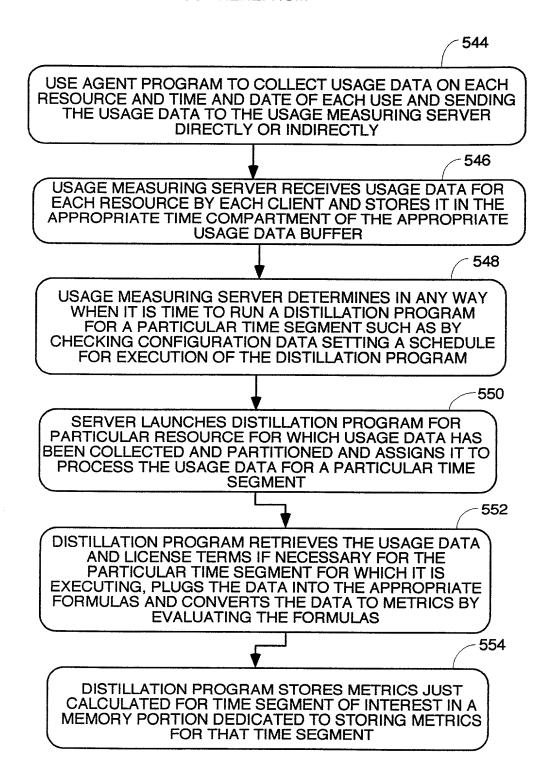


FIG. 16

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ROLLUP A ID 39

	MON	TUES	WED	
M1= CPU	10	1	0	Ī
M2= DOCS	500	50	0	Ţ
M3= #PGS	759	71	0	Ī
	:	•	:	

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED	
0	3	2	
0	70	40	
0	139	96	

FIG. 17

FIG. 18

PREFERRED ROLLUP B ID 50

MON	TUES	WED	
10	4	2	
500	120	40	
759	210	96	

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	4	2
0	120	40
0	210	96
		

FIG. 19

FIG. 20



Fig

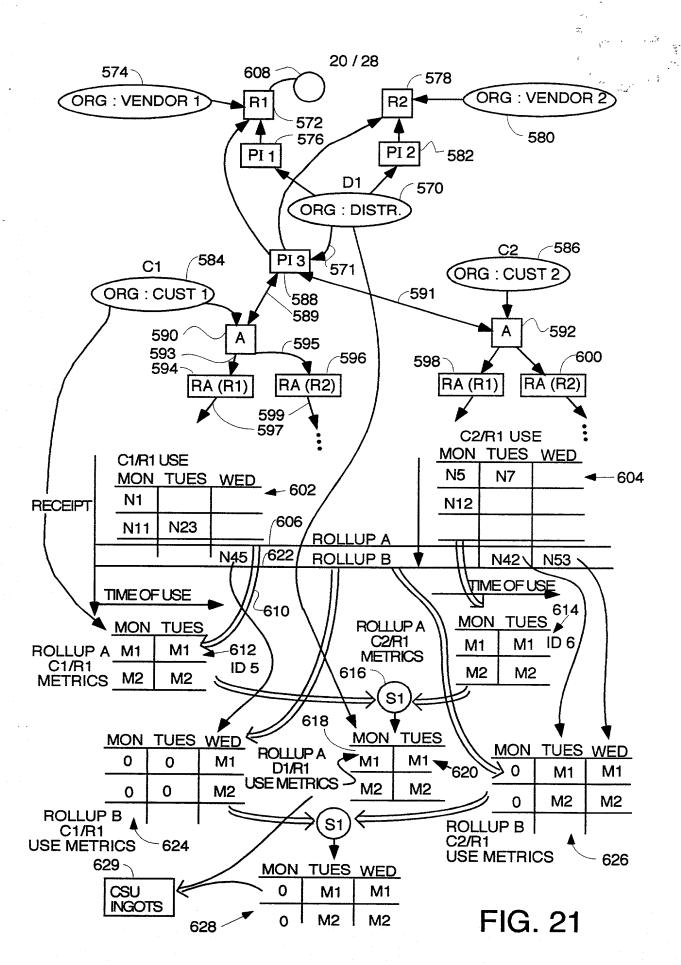


Fig.

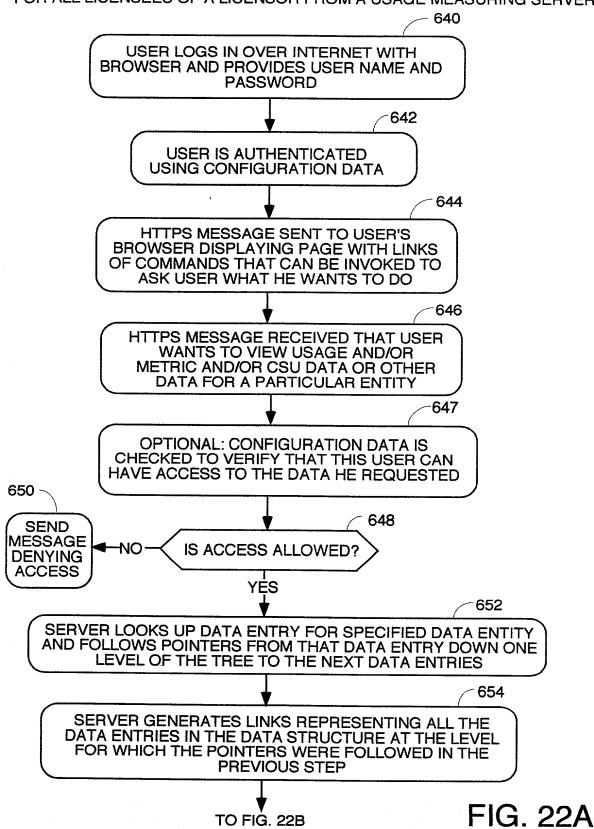
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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER



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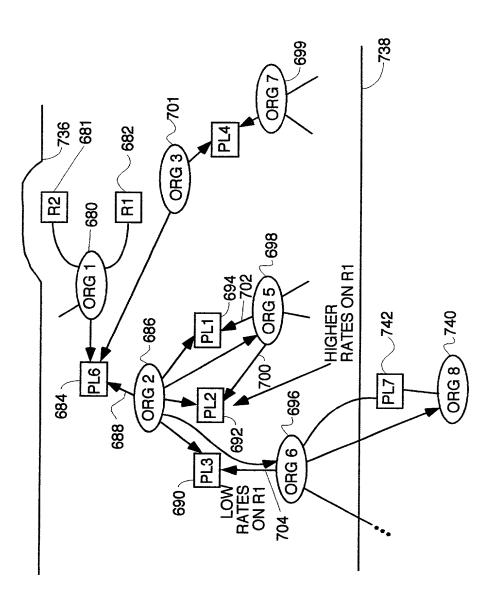
22 / 28 FROM FIG. 22A 656 SERVER SENDS THESE LINKS BACK IN HTTPS MESSAGE(S) WHICH CAUSE THE USER'S COMPUTER TO DISPLAY THE LINKS PRÉFERABLY WITH DESCRIPTIVE TEXT WHICH DESCRIBES WHAT EACH DATA ENTRY REPRESENTED BY A LINK IS 658 SERVER RECEIVES HTTPS MESSAGE(S) BACK FROM USER INDICATING WHICH LINKS USER SELECTED INDICATING WHICH DATA USER WISHES TO SEE 660 SERVER ACCESSES WHATEVER TYPE OF DATA USER SELECTED AND SENDS IT TO USER IN HTTPS MESSAGE(S) FOR DISPLAY ON **USER COMPUTER** 662 THE SERVER SENDS AN HTTPS MESSAGE TO USER ASKING IF THE USER WANTS TO SEE MORE DATA BELOW THE LEVEL OF THE TREE JUST DISPLAYED 664 SERVER RECEIVES MESSAGE INDICATING USER WANTS TO SEE MORE DATA 666 SERVER FOLLOWS LINKS FROM DATA ENTRY OR ENTRIES JUST DISPLAYED DOWN ONE MORE LEVEL OF TREE AND GENERATES LINKS FOR THE DATA ENTRY OR ENTRIES SO **FOUND** 668 SERVER SENDS HTTPS MESSAGE TO USER CAUSING LINKS SO GENERATED TO BE DISPLAYED BY USER'S BROWSER, PREFERABLY ALONG WITH DESCRIPTIVE TEXT INDICATING WHAT DATA EACH LINK REPRESENTS 670 SERVER RECEIVES MESSAGE INDICATING WHICH DATA USER WANTS TO SEE, SENDS IT TO USER, INQUIRES WHETHER HE WANTS TO SEE MORE AND REPEATS PROCESS TILL ALL LEVELS

OF TREE EXHAUSTED OR USER QUITS

FIG. 22B

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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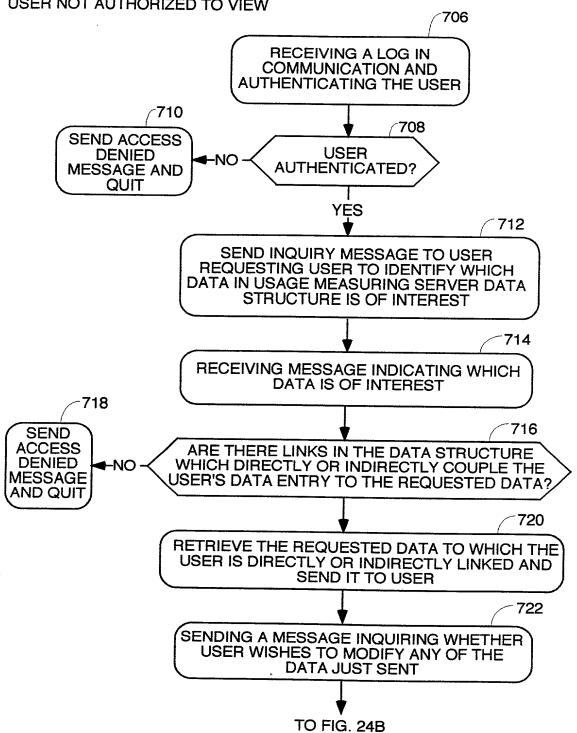


FIG. 24A

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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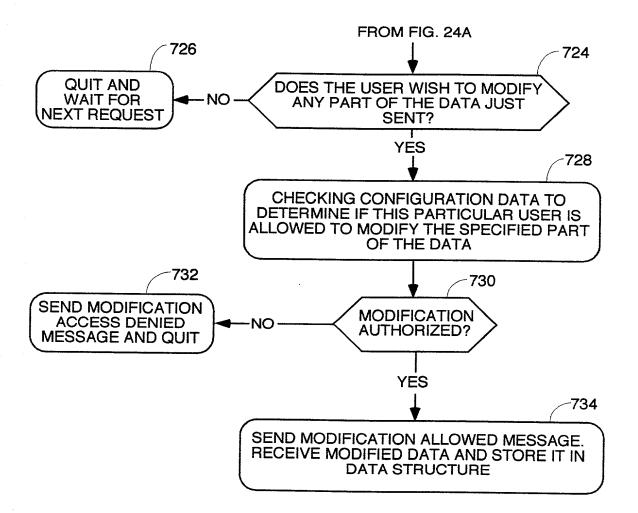
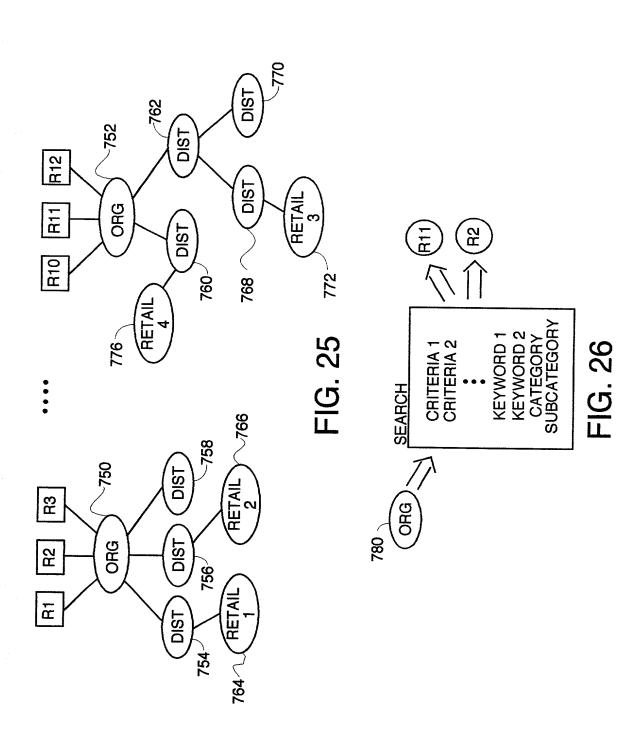


FIG. 24B



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Serial No.: 10/003,002 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.6D

itle: TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

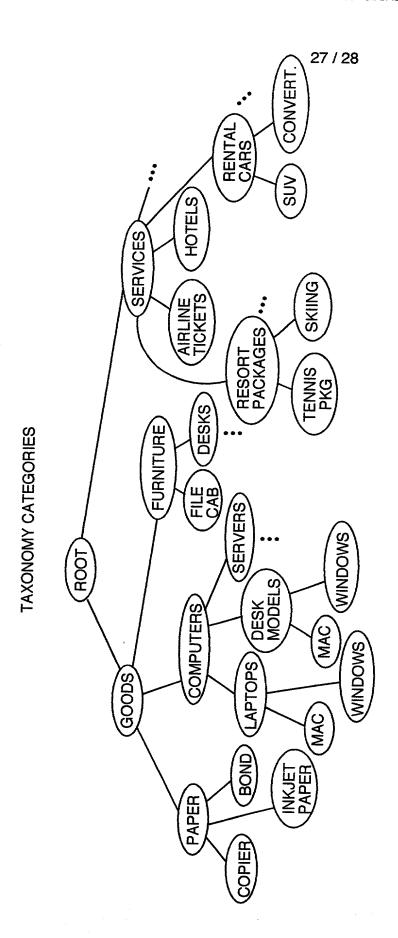


FIG. 27

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TEMPORAL PROCESSING OF USAGE DATA IN A USAGE BASED LICENSING

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SERVER PROCESSINGTO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

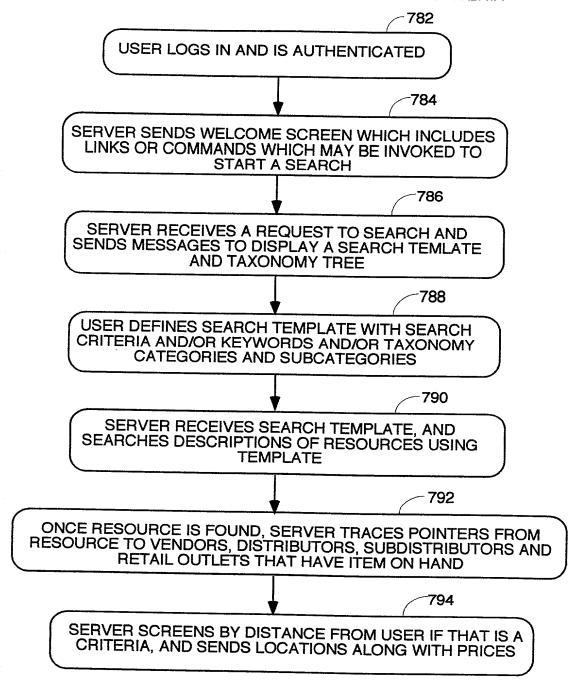


FIG.28